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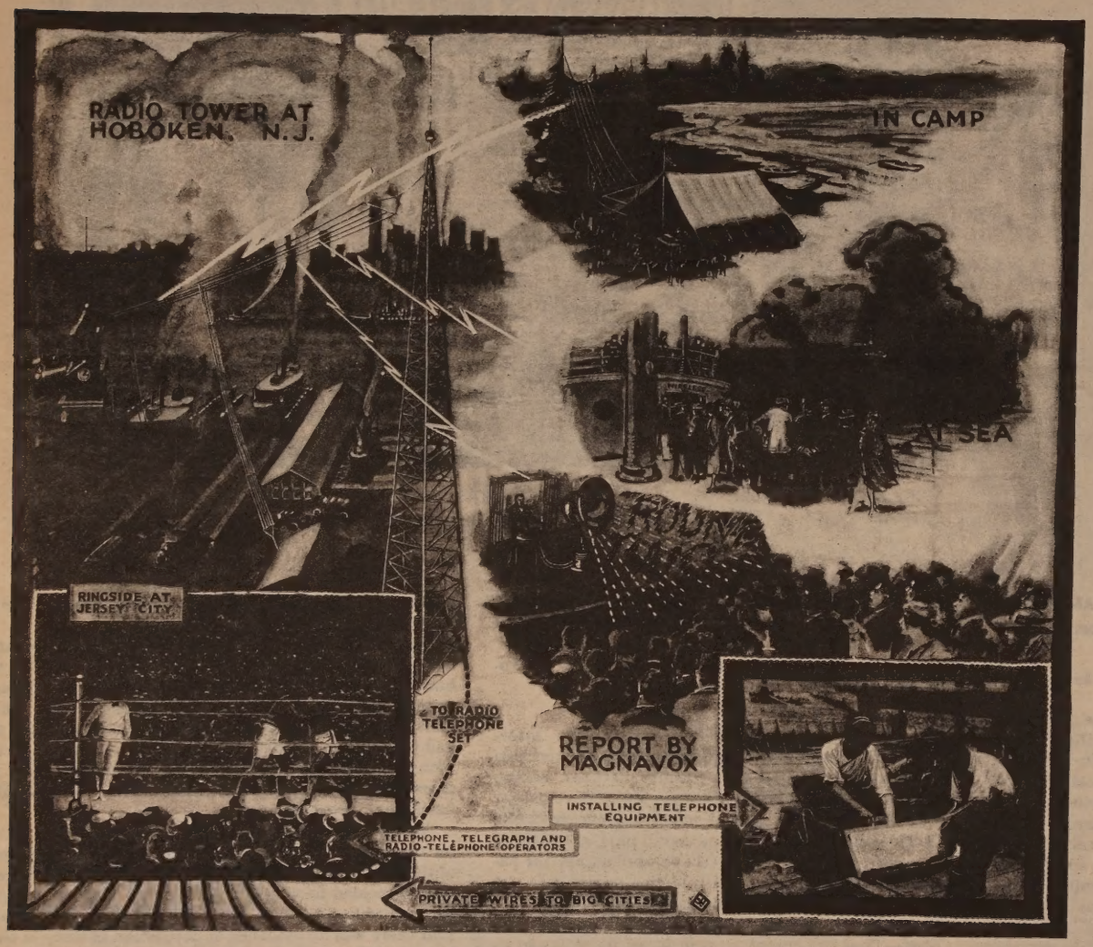
THE HORN SPEAKER

Dempsey-Carpentier Fight Via Radiophone

By ARTHUR H. LYNCH



The Comprehensive Illustration Above Shows Vividly How the Great Dempsey-Carpentier Fight News, Blow by Blow, Was Radiated by Radio-Telephone from the Lofty Antenna Located at the Lackawanna Railway Terminal at Hoboken, New Jersey. The News Was Received Over a Very Wide Area and it Is Estimated That Several Hundred Thousand People at Least Received the Reports of the Fight in Cities, as Well as in Camp and Far at Sea.

WHEN Referee Harry Ertle reached the count of "nine," nearly one hundred thousand ringside witnesses held their breath and watched eagerly to see if, the intrepid Frenchman could get up before the fateful "ten." He couldn't; you know the rest of the story.

Have you seen one of the pictures of the crowd which was in that huge arena—the greatest crowd which ever gathered to witness a sporting event. Epoch-making, in the history of sport! Yes, and then some! But, that crowd, great as it was, is nothing in comparison to the crowd which followed the fight, round by round, blow by blow, through the medium of the wireless telephone.

Blow by Blow Reports Received by More Than 300,000 People

How It Was Done

The Radio Corporation of America, the D. L. & W. R. R. and the American Telephone & Telegraph Company, installed a wireless telephone transmitting station in Hoboken, N. J., which was connected to a booth at the arena by a private telephone wire.

During the preliminary bouts and during the championship bout itself, the introductions of the fighters and the activities in the ring were telephoned by an observer in the press booth to the wireless station in Hoboken. An operator, at Hoboken, would then repeat the reports into the transmitter of the wireless outfit. The fluctuations of his voice caused various changes in electrical circuits and after being amplified some fifteen million times, were radiated into space from the wires supported by the well-known Hoboken tower, and eventually were picked up and converted again into sound waves at various points thruout the eastern section of the country.

For the transmitting station, six 250-watt-power tubes were used, giving a total output of 1,500 watts. The aerial was strung between the high steel tower, shown in one of the accompanying illustrations, and the clock tower of the D. L. & W. R. R. terminal, at Hoboken.

The Absent Audience.

If you take the number of the people, who were in the arena, multiply by three and add a few hundred, you will have a fair idea of the number of those who listened to the returns of the fight. What manner of giant do you suppose it would take to talk in an ordinary tone and have his voice carry to the rim of a circle such a multitude would fill?

Go further still; take some of the crowd you have gathered together and place them in a New York restaurant; place others in a hotel in Philadelphia; others in the Elks' Club in Syracuse; others in various parts of New York State, New England and as far south as Washington and Baltimore. Put some of them aboard ocean liners, two or three hundred miles at sea, and still other groups aboard yachts and small craft in the various harbors and bays of the coast, within a distance of five hundred miles. Put a few here and there, on the farms, and a great number of groups of from one to thirty in private residences of the several states, within the same distance, and you will have a more definite idea of the vast audience which followed the wireless telephone reports, directly from the transmitting station in New Jersey.

In many instances these reports were augmented by other and independent transmitting stations, taking the original data and forwarding it thru the medium of the ether to more distant audiences, which are not taken into account here, and which may well be considered to extend over the entire country. The significance, then, of this wireless event begins to come home to us.

In one instance, alone, there was a crowd of more than one thousand, which received the news, by means of loud-speakers connected to the receiving station, which was set up in an open lot. A radio man, on a millionaire's yacht, which was going up the Sound, happened to pick up the signals, tho he had no previous knowledge that they were to be sent. He was able to connect his radio set to a loud talker and all those aboard the yacht enjoyed the returns.

What is to Follow.

The reporting of the fight was carried on with great success and has been greeted with such great enthusiasm that it has been decided by the Radio Corporation to keep the station intact, tho it was originally installed for the sole purpose of broadcasting the fight reports.

It is to be used for sending out similar news of other important sporting, political, and social events. When his next adversary meets Carpentier, it is thought that an even greater audience will be ready to receive the fight news. For, it must be remembered, that there was but little notice given of the reporting of the event on July 2nd. The day is very rapidly approaching when every home will be supplied with a radio telephone receiving ap-

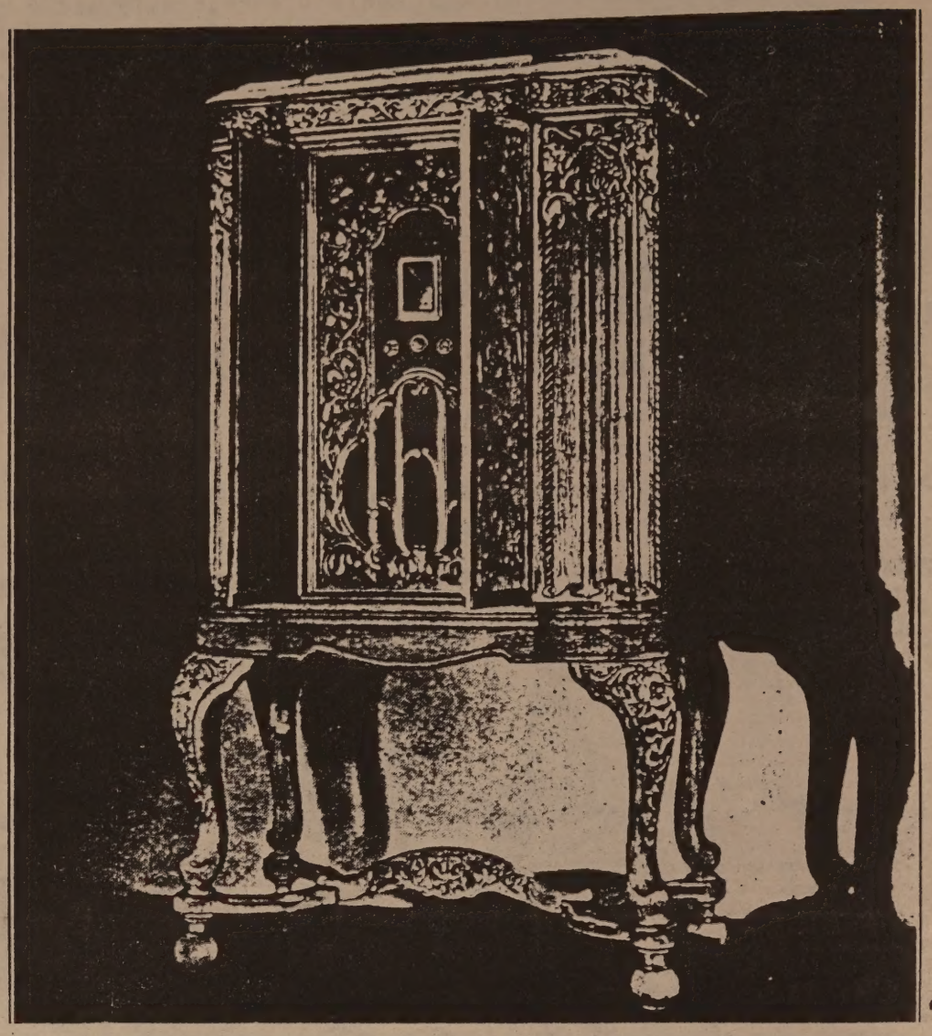
paratus, to take advantage of just such events as this.

Leaving the reporting of merely interesting events, such as we have been considering, let us remember that another very important service is being perfected by the U. S. Government; it is the sending of weather and market reports to the farmers by wireless telephone. This service is proving to be a very popular one. Many of the farms are now following the schedules, which these telephone stations follow.

During the past few months, in addition to the distributing of news, on the comparatively high power which we have been considering, other services have been instituted, notably in the large cities, where wireless telephone transmitters were used to transmit phonograph music and even vaudeville. Individuals have taken it upon themselves to send out music at certain hours, so that those within range may listen to it. In two or three instances, radio companies have undertaken the installation of wireless telephone transmitting stations in theatres, and the entire performance may thus be followed by any one, who goes to the trouble of setting up a simple receiving station.

The editors of SCIENCE AND INVENTION as well as the editorial staff of our sister publication *Radio News*, received the news of the great prize fight, blow by blow, thru wireless telephone receiving sets connected up to the antenna on top of their building at 233 Fulton Street, New York City. One of the interesting features of the reception was that two distinct sets picked up the ether-flung messages. Mr. Joseph H. Kraus, field editor of SCIENCE AND INVENTION, operated a three-stage audion amplifier receiving set which was connected to the antenna on the roof, while Mr. Robert E. Lacault, associate editor of *Radio News*, surprised the large number of visitors by picking up the messages on a loop aerial 3½ ft. square, and amplifying them with his 10 step French audion amplifier, the voice emanating in the final stage from a loud talker of the new type provided with a large paper cone diafram.

One good feature of the new paper cone loud-talker is the fact that it does not focus the sound, but radiates it in all directions at once.



Story and Clark, a builder of musical instruments since 1857, manufactured this fine old radio in 1930. This model 51 certainly represents the period.

TELEPHONE

SCIENTIFIC AMERICAN,
November 21, 1896

The Berliner Telephone Patents Case before the Supreme Court.

The case of the United States against the American Bell Telephone Company was argued in the United States Supreme Court on November 11. In some respects the case is regarded as among the most important before the court, as it involves the validity of the Berliner patents, owned by the Bell Company.

Attorney-General Harmon, Solicitor-General Conrad, and a number of attorneys representing special interests, appear in connection with the suit of the United States, while the Bell Company has a heavy array of counsel, including Messrs. James J. Storrow James H. Choate, and Frederick P. Fish. The Standard Telephone Company is represented by General James McNaught and Myron Francis Hill, who have filed a brief on two points in behalf of the government. The Standard Company has no direct interest in the litigation, except as it affects the general use of telephones. It is said that a decision in favor of the government would tend to open the telephone to public use.

Owing to the importance of the interests involved, the court granted nine hours for argument, which will continue the case for about three days. Judge R. S. Taylor, of Indianapolis, opened the argument on November 11 in behalf of the United States.

HISTORY OF THE SUIT.

The suit began February 2, 1893, when the Attorney-General filed a bill in equity against the American Bell Telephone Company and Emile Berliner, asking for the annulment of its patent. An alternative prayer was made that if the patent was not declared wholly null and void, it should be repealed in part, as the court determined proper. The Berliner application for patent was filed June 14, 1877, but the patent was not issued until fourteen years thereafter.

The main points raised by the United States are:

First—That the patent is void for illegal delay in its issue.

Second—That it is also void on the ground that a prior patent was granted upon the same application to the same applicant for the same invention.

The patent covers what is known as the microphone. The Attorney-General will set up that the Bell Telephone Company "designedly and with intent to thereby prolong its monopoly, delayed and prolonged the pendency of the application for more than thirteen years after its control of the patent."

The Bell Telephone Company, in its answer, points out that the United States officials from the first have had entire control of the application for patent, and an express denial is made that there was any fraud, accident, or mistake. The company maintained that it had not designedly delayed the issue of the patent, with a view to extending its rights. It alleged that if there was any slowness, it was the act of the plaintiff itself, the United States.

The case was tried in the United States Circuit Court for the District of Massachusetts, where the contentions of the United States were sustained. The Bell Company appealed to the Circuit Court of Appeals, where the preceding decision was reversed on the ground that there was no evidence of dereliction of duty in the Patent Office, and the bill in equity of the United States was dismissed.

The case now comes before the Supreme Court on an appeal by the United States from the decision of the Court of Appeals. The same points first presented, as to delay, are still foremost, and the arguments of counsel on November 11 were directed mainly on these points.—Washington Post.

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ROYAL E. HOUSE'S TELEPHONE OF 1868.

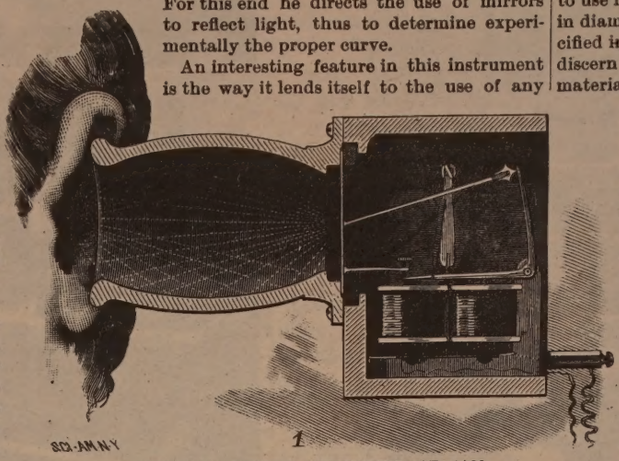
We illustrate in the cuts accompanying this article an object of much interest at the present day, when the telephone controversy has reached such proportions. It is an "electro-phonetic receiver," for use in telegraphy, invented by Royal E. House, and patented by him in letters patent No. 77,882, of 1868. This name was given it by the inventor. It is really a telephone.

A box of generally cubical form has one end closed with a diaphragm. Two slender bars of metal are attached to the diaphragm, one near the center, the other below it. These bars the inventor terms "limiters." The upper limiter limits the motion of an armature working over a magnet, so that it cannot come in contact with the poles. The other limiter prevents the armature from receding too far from the poles. The armature is pivoted at one end. Its inner and free end strikes the lower limiter; it is provided with an extension at the pivoted end that extends upward at right angles to the armature. The end of this arm bears against the upper limiter. An electro-magnet operates this armature, and is situated below it in the bottom of the box, and is connected to binding posts. A tension spring is used to adjust the pull of the pivoted armature away from the magnet.

The box has attached to it an ear trumpet or reflector that surrounds and extends outward from the diaphragm. Both limiters have adjusting screws. By these their freedom of movement may be varied. They can be adjusted so that they will be in contact one at a time only with the armature and arm. In this case a make and subsequent break, or corresponding and considerable changes in intensity of current, will produce two blows, the first on the upper limiter and the second on the lower. On the other hand, by screwing out the limiter screws to a fuller extent, this oscillation will be gradually reduced until no break is possible. Then makes and breaks of the current, or variations in intensity, will no longer produce blows, but a true telephonic sound on the diaphragm. If connected in circuit with a microphone transmitter, it will talk; and if two are connected having closed or ground circuit with battery, or if steel or cast iron magnet cores are used without any battery, they will act as receivers or transmitters, and form a complete telephonic system.

The apparatus is a perfect telephone, immeasurably superior to anything shown in the Bell patents of 1876 or 1877. The subject of Figs. 1 and 3 of our drawing is a reproduction of the model accompanying the patent, which model was destroyed in the Patent Office fire. Its sides in the elevation are broken away to show the interior construction. In the section it is shown in use as a receiver. The inventor's idea of his ear trumpet was that it should operate as a reflector of sound waves. He gives directions for constructing the interior surface of such form as to reflect the sound waves to a focus to be occupied by the listener's ear. For this end he directs the use of mirrors to reflect light, thus to determine experimentally the proper curve.

An interesting feature in this instrument is the way it lends itself to the use of any material for the diaphragm. In this respect it resembles strikingly Bell's instrument of the 1876 patent. In both of the systems, the armature is distinct from the sounding part. The inventor's idea was, if desired, to use large diaphragms. Some as large as eight inches in diameter have been constructed, this size being specified in the patent, and work very well. It is easy to discern in the instrument a great flexibility as to size, material, and other modifications, its system of adjustment is so complete.



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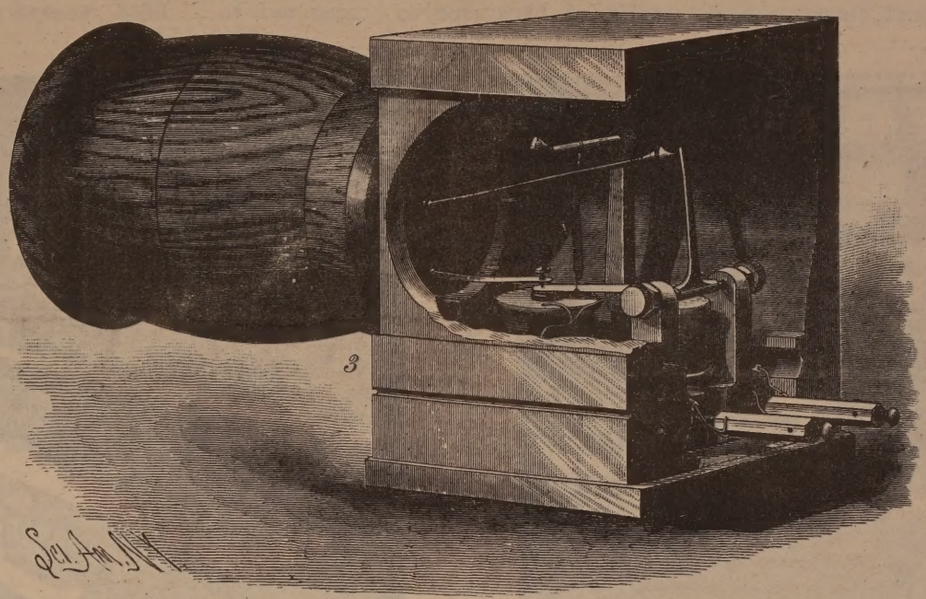
ROYAL E. HOUSE'S TELEPHONE OF 1868.

The two figures described above are exact copies of the patent drawings. To adapt it to modern use some minor changes in proportions and material have been introduced, which are illustrated in Fig. 2. The frame or body is constructed of cast iron. The magnet cores are screwed into one arm of this frame, and bobbins are placed around them. An ebonite ear or mouth piece screws on the open end of the frame, and clamps the metallic diaphragm in position. This ear piece is made shorter than was the corresponding part of the model of the patent. A two branched limiter is substituted for the pair of separate limiters of the original. The result is a more compact instrument. A cover of brass or German silver incloses the principal working parts. Binding posts are attached to one of the arms of the frame opposite to the magnets. Thus the frame forms the back piece of the magnet. The double limiter is provided with adjusting screws. This instrument is a serviceable, distinct telephone. We very recently were present at a trial of its capacity over a fair length of line. Four Leclanche cells were in circuit. The same instruments were used for receivers and transmitters. The action was perfect. There was no choice of sounds. Sibilants were as clearly transmitted as any other utterances. The writer in listening to them had several standards. He had listened to one of the first of the Bell telephones in 1877 or thereabouts, at the Stevens Institute in Hoboken. The other standards were reproductions of the Reis telephones, which he had also experimented with. The House telephone was far superior to either of these. Its work was fully as good as that of the Bell telephone and Blake transmitter of to-day. The modern instruments, it will be noticed, do not differ except in constructive detail from the device of the patent. They are a true reproduction of it. It is most interesting to place the name of the inventor of the first printing telegraph by the side of Reis, Edison, Bell, and Gray, as the inventor and constructor of one of the early telephones.

The Wallace Telephone Co., of 150 Broadway, N.Y., will soon be prepared to supply these instruments.

SCIENTIFIC AMERICAN,

November 13, 1886



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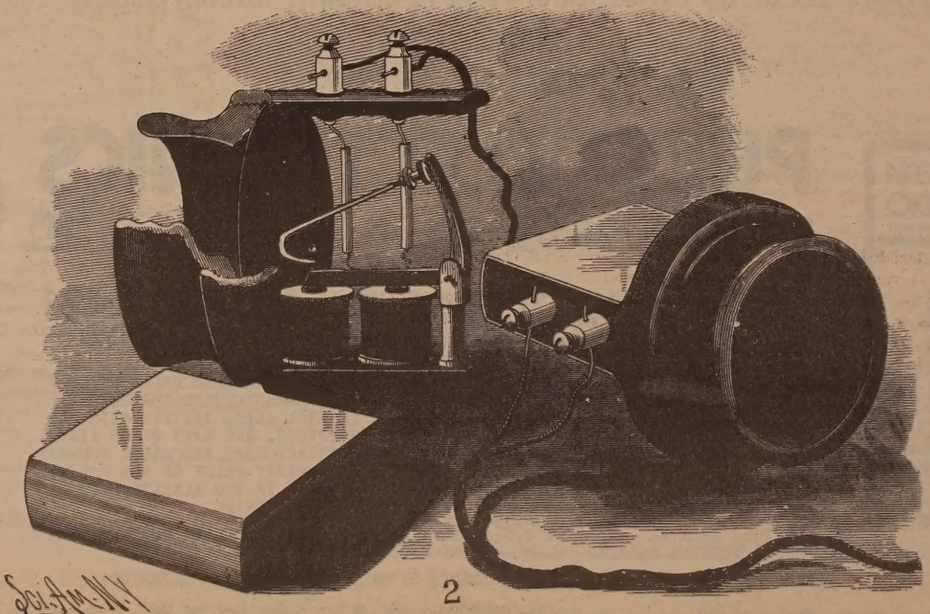
ROYAL E. HOUSE'S TELEPHONE OF 1868.



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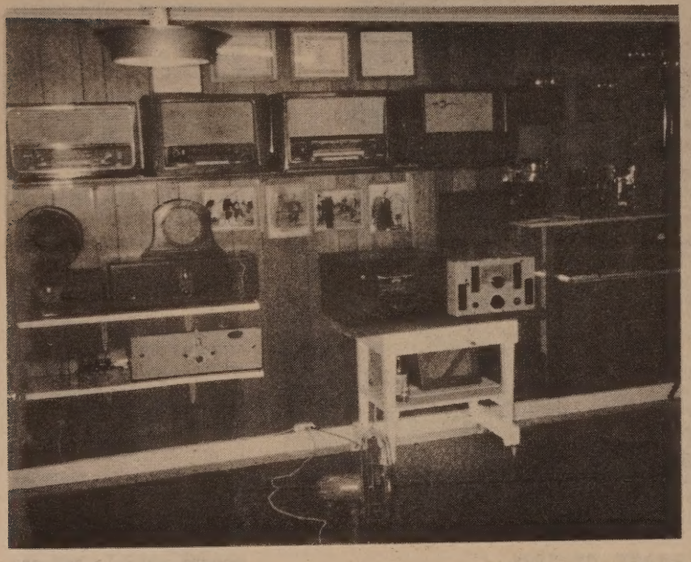
HOUSE'S MODERN PHONETIC TELEGRAPH.



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POWER SUPPLY FOR 01A TUBES
by Bert WA9VXE

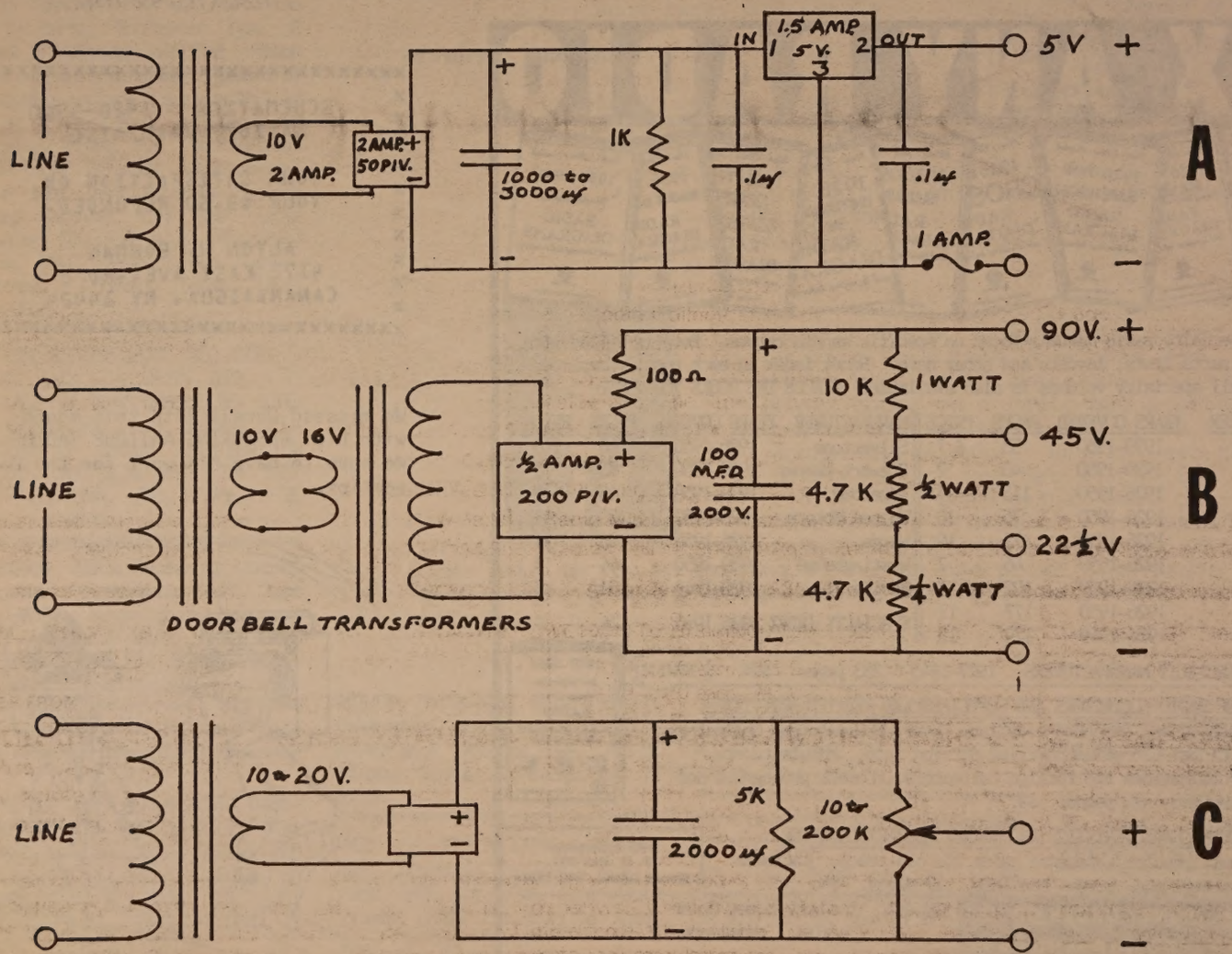
This power supply was designed to replace the batteries that were used in old time radios that used 01A tubes. It is designed around inexpensive parts that are readily available from radio parts stores.

The transformers used in the B supply are a pair of door bell transformers. One transformer has a 10 volt secondary and the other has a 16 volt secondary. When the secondaries are hooked together as shown and used with the other components indicated the B+ voltage is close to 90 volts. The 45 and 22 1/2 voltages are taken off of a voltage divider strung between B+90 and B- including bleeder current is less than 20 M.A. The door bell transformers are much larger than necessary but they are easy to find and the price is right. The ideal transformer would be a small transformer with about a 100 volt secondary. I have never seen one.

The A supply is also a bit tricky. Because of the low voltage and the relatively high current requirements and the bare filaments of the 01A tubes, very good filtering is needed. This was achieved by using a large filter capacitor of 2,000 mfd. and a 5 volt IC positive voltage regulator. The regulator used for 5 tubes was a E.G.C. 931 Philips, any regulator of two amps. or more will do. With 4 tubes or less a small regulator of 1 to 1 1/2 amps. will be satisfactory: such as GEVR-102, EGC-960, SK-3591, LM-340T and others. The price on the small regulators range from $1.25 to $3.50. For stable and quiet operation these regulators shouyld be bypassed at the device.

The C supply is very simple and straight forward. The smallest transformer that you can find will work as it only has to furnish bleeder current of only a few mills. Use a large filter capacitor and keep the DC leads away from the AC leads. If available use shielded transformers in this power supply. Adjust the C voltage to where the radio sounds best. Good luck.

POWER SUPPLY FOR 01A TUBES



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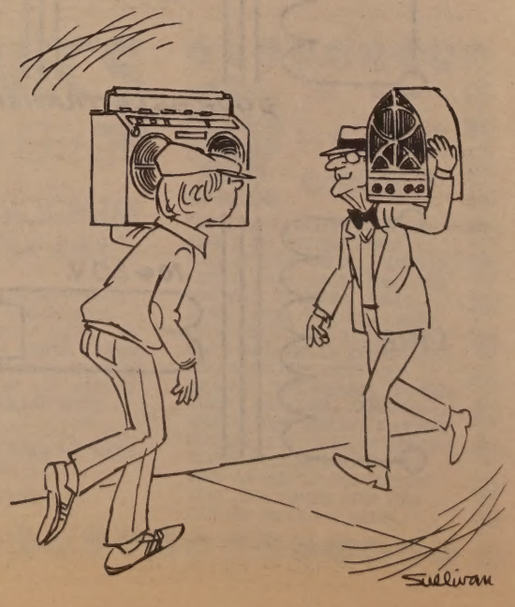

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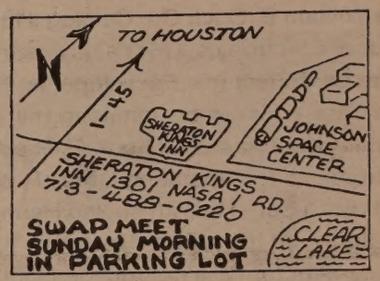

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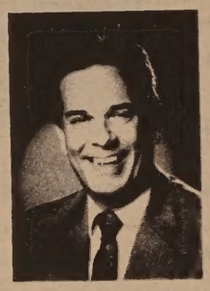

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IF YOU DID NOT SEND FOR MY TIE TAC AND LAPEL PIN LIST YET - HURRY - 125 SATISFIED CUSTOMERS FROM 9 CLUBS CANNOT BE WRONG. SEND A L.S.A.S.E. FOR ILLUSTRATED LIST TO: MICHAEL SABODISH SR., 11-A MATAWAN AVENUE, CLIFFWOOD, NJ 07721.

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The "Flea Market" section is now being classified. The reader should be able to get better results out of the ads being classified. We hope to hear from you about it being better... or even worse.

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FOR SALE — SCHEMATICS, BOOKS, ETC.

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PHILCO 1928-1946 SCHEMATICS / parts cross reference 311 pages. $5 plus $6 postage. GORDON WILSON, 11108 - 50 AVENUE, EDMONTON, ALBERTA, CANADA, T6H 0H9.

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THIS SERVICE MANUAL supplement contains a list of electrical values, resistors and condenser, coils and transformers in all Atwater Kent radios 1924-1933 inclusive $3.50 P.P. 24 pages. ****** THIS BULLETIN contains the complete list

COLLECTOR'S BOOKS

Antique Radio Restoration & Price Guide	$10.95
Seventy Years of Radio Tubes & Valves By John W. Stockes (SC)	15.95
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Radio Equipment & Supplies - 168 page reprint	12.50
1927 Radio Encyclopedia - Gernsback, 179 pgs.	11.95
Crosley Radio Catalog, circa 1923, 32 pages	4.00
Westinghouse Apparatus, circa 1920's, 8½ X 11	4.00
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Early Wireless, Anthony Constable, HC (printed in England)	14.95
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Atwater Kent Instruction Book Vol. II, an exact color duplication of the original	8.95
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of Philco black bakelite "by pass" condensers, new universal types, discontinued types with replacements and condensers with internal resistors $1.50 P.P. — Lee Williams, 7301 N.E. 175th St., Bothell, WA 98011.

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FOR SALE: A.R.R.L. BOOKS, CALL BOOKS, HAND BOOKS, QST, RADIO MAGS. S.A.S.E. F. A. NICHOLS, 720 E. ELDORADO ST., APPLETON, WI 54911.

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ELECTRONIC ORGAN SCHEMATICS AND MANUALS. SASE FOR PRICE QUOTES. MANY MAKES AND MODELS. ALTON H. BOWMAN, 4172 EAST AVENUE, RD 2, CANANDAIGUA, NY 14424.

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THIS SERVICE MANUAL supplement contains a list of electrical values, resistors and condensers, coils and transformers in all Atwater kent radios 1924-1933 inclusive. $3.50 P.P. Lee Williams, 7301 N.E. 175st, Bothell, WA 98011.

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FOR SALE: RADIO NEWS, RADIO CRAFT from 1929 to 1948. misc. radio magazines. S.A.S.E. for list. F.A. Nichols, 720 E. Eldorado, Appleton, WI 54911.

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THIS BULLETIN CONTAINS the complete list of Philco black bakelite "by pass" condensers, new universal types, discontinued types with replacements and condensers with internal resistors $1.50 P.P. Lee Williams, 7301 N.E. 175th, Bothell, WA 98011.

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CROSLEY MODEL 25-AW, WORKS, LOW VOLUME, TABLE MODEL, CABINET GOOD BUT SCRATCHED, AM AND SW, BEST OFFER, LOUIS YADEVIA, 601 CHURCH LA., UPPER DARBY, PA 19082.

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1. SILVERTONE NEUTRODYNE (works good) 4. RCA VIII with battery box each end, less tubes, clean, works very well. 3. Freshman Masterpiece with built in speaker, less tubes, works good, very clean. 4.

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A K MODEL 46, Sears tombstone battery model 4439 and power pack. Russell Schoen, E7340 Nietzke Road, Clintonville, WI 54929. (715) 823-6744.

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W.W.2 RADAR BOOK 19. RIDERS, ETC. 1934-1956. A.K. DRIVER FOR SPEAKER. RUSS- SCHOEN, E 7340 NEITZK ROAD, CLINTONVILLE, WI 54929.

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PLIODYNE 6 with owner's manual $250.00. Grebe MU1 Synchrophase with Amplion AR-19, horn with mahogany bell $600.00. All items in excellent condition and postpaid. Am also seeking a Victor Theramin. George Anglin, 938 E. Prince Road, Tucson, AZ 85719. (602) 887-2899.

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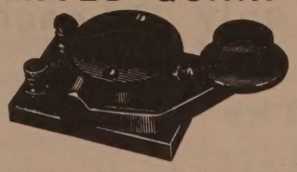

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50 YEAR OLD FLAME PROOF KEY
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FOR SOME 50 YEARS, THE J-7A KEYS WERE STORED IN A REMOTE WAREHOUSE IN THE HUGE BROOKLYN NAVY YARD. IN 1966, THE NAVY CLOSED THE YARD AND THE CITY OF NEW YORK PURCHASED THE PROPERTY. THE KEYS WERE DISCOVERED AT THAT TIME.

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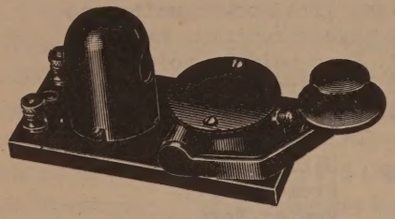

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THE KEYS ARE OF HEAVY DUTY CONSTRUCTION WITH A LARGE NAVY TYPE KNOB AND BRASS KEYING ARM. THE BAKELITE BASE IS 3/8" THICK WITH A SIZE OF 2-5/8" X 5-1/2". THE BULB, OR LAMP IS NOT SUPPLIED WITH THE KEY.

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TELEVISIONS

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RCA TV Model 8PT7010 in red metal case in working condition. Included second set same model for parts. Make offer. John Schellkopf, 1344 Goucher Street, Pacific Palisades, CA 90272.

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THE CABINET IS IN MINT CONDITION and the radio plays. It is a Zenith 12 tube superhetrodyne with a tuning range 540-18400 kyc., chassis 1204-A. Marshall T. Bond, 8718 Linkfair lane, Houston, TX 77025. (713) 668-0029.

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FOR SALE: 1940'S VINTAGE ZENITH CONSOLE radio and phonograph. Cabinet is in excellent condition. $250.00 — Call (815) 838-5398. 5 p.m. to 10 p.m. c.s.t. Dick Stauss, Rt. 1 Box 399, Lockport, IL 60441.

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WANTED — EDISON

WANTED FOR EDISON STANDARD phono— model B. 1.) mainspring 2.) decals-trademark and "Edison, 3.) cabinet 210 4.) a. K. breadboard in excellent condition. Carl Hickey, 27404 N. Highway 1, Fort Bragg, CA 95437. (707) 964-0505.

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SIDE TUNING KNOB FOR BELMONT 6D111, manual and schematic for measurements model 80 and Heathkit LG-1 signal generators, RIDERS vols. 16-23, and SAMS 1-700. Looking for a book by the title of "Case Histories of Receiver Troubles and their Remedies," published by Rinehart Books in addition to a hard-cover copy of Tyne's "The Saga of the Vacuum Tube." Am also interested in contacting other collectors in Columbus, Ohio area. Brett Gundlach, 276 E. COMO AVE., COLUMBUS, OHIO 43202, HOME 614) 267-0346, WORK (614) 888-9502.

RADIOLA 28 with 104 speaker, Radiola 25, Radiola 20, Norden Hauck Superhet, Leutz Superhet, Pilot Super Wasp, Pilot parts, Crosley parts, Atwater Kent parts and AK breadboard parts, RCA UZ-1320 horn, Radiola RS, Zenith Super VII or VIII, crystal sets, Burns horn, Emmett A. Smith, 2714 Alden Road, Baltimore, MD 21234.

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WANTED: ENTIRE WORKS for Capehart 500K, also Edison C-1, C-2, Balmoral and Alva, Victor 10-51A, Tom Grattelo, 2818 Central, Alameda, CA 94501.

PEERLESS MODEL 19AR-60 9" DYNAMIC speaker with cabinet in good working condition. H-P model 410C VTVM working. RCA Victor R-35 radio in excellent working condition. Simpson model 1699 milliohmmeter in working condition. Radiola 20 chassis with good audios. Audio transformer for RCA Victor R15 or RCA Radiola 48. Radio Broadcast magazines for 1922 and 1928. Early Canadian Radio magazines such as Canadian Wireless, Radio, etc. Radio News for July, August and October 1919. October 1921, January

1922, August and September 1924. Top prices for good condition magazines. R. A. McNeill, P. O. Box 472, Yorkton, Sask., Canada S3N 2W4 (306) 783-6121.

WANTED: DECANTER BOTTLES, ice bucket, shot and drinking glasses for model 9008-B Porto-Baradio made by Stewart Warner. Clarence MCGinnis, 1507 N. Glenn Street, Morristown, TN 37814.

WANTED: OWNERS OF EARLY ELECTRICAL magazines, MODERN ELECTRICS, ELECTRICIAN & MECHANIC, etc. I will pay for good photocopies of articles on spark gaps, high frequency Tesla & Oudin coil projects, etc. Need information for forthcoming bibliography. Write first to TCBA, RD3 Box 181, Glens Falls, NY 12801.

WANTED: WWII MILITARY Iconoscope TV camera or tube alone. OK if converted to amateur use. Canadian Marconiphone III regen., IV neutragenaflex, VI, VIIA, VIII, IX, XI. Canadian Westinghouse model W55, W55A, W60A, W57. Hammarlund Trans-Oceanic "Two", De Luxe, Hawk. Kresge Z4 Commander, Karas Short Wave Receiver. D'Arcy Brownrigg, P.O. Box 292, Chelsea, Quebec, JOX 1NO, Canada.

WANTED: A. K. MODEL 55, need everything to mate with gear on tuning condenser. Could also use but not so critical speaker or cone for above. Floor cabinet model, need ivory knob, prefer function for FADA mdl. 790. Will buy junk A.K. if it has at least the tuning parts. C. England, 98 Montague, So. Zanesville, OH 43701.

WANTED: COVER FOR A.K. 55 tin box. Also, 4 tube covers for Advance Neutrowound. Will buy junk set. Jerome Schliepp, 831 Old Berlin Road, Rippon, WI 54971.

C-4 TUBE. for Columbia radio model C-80A. SPRING AND PLATE for A.K. speaker model M. Russ Schoen, E 7340 Nietkze Road, Clintonville, WI 54929. (715) 823-6744.

WANTED — LITERATURE

EVERY DAY MECHANICS, VOL. I, NO. 4, MAY 1916 OR A COPY OF "HOW TO BUILD A TRANS- ATLANTIC WIRELESS RECEIVING SET. K. A. LADD, 5240 44TH AVE. S., MPLS., MN 55417. (612) 722-6786.

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WANTED: OPERATING MANUAL and tube data sheets for Jackson Dynamic tube tester model 636. Zerox copy O.K. Frank Hoffert, 19605 Chardon Road, Cleveland, OH 44117.

WANTED - INFORMATION AND SCHEMATIC for Blaupunkt Sultan 3D radio. Model number unknown, 5 tube AM/FM/SW. Write Ray Carifio, N4LTS, 6014 SW 33rd Street, Miami, FL 33155

WANTED: LIBRARY BOUND volumes of QST, CQ, 73 PRE 1960. ALSO GLOBE SCOUT (WRL), MIKE GRIMES, K5MLG, 3805 APPOMATTOX CIRCLE, PLANO, TX 75023.

WANTED — PARTS, TUBES, ETC.

EARLY OR UNUSUAL TUBES, tube cans, cartons also early light bulbs pre 1900. Please describe with prices wanted to: Bruce Harbeck, 13408 Westwood Lane, Omaha, NE 68144. (402) 333-9013.

HALLDORSON 3 to 1 audio transformer, copper casing. hard rubber panel 10 x 11 x 1/4. Gordon Wilson, 11108 - 50 Avenue, Edmonton, Alberta, Canada, T6H 0H9.

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MARCONIPHONE VIII cabinet, also Marconiphone VI chassis, or complete radios cash, or generous trade. Gordon Wilson, 11108 - 50 Avenue, Edmonton, Alberta, Canada, T6H 0H9.

WANTED — PHILCO

PHILCO MODEL 20B 1930 "Baby Grand" radios. Original finish, and no chassis changes a must. Must be completely original and in working condition. Will pay top price for a real nice one. All replies will be answered. Write: Ronald G. Burtzos, 915 Crane Drive, Apt. 703, DeKalb, IL 60115.

PHILCO MODEL 90B, working or not. Original speaker from Philco model 20— must be in good shape. Thomas Abell, 1022 S. Edison Ave., South Bend, IN 46619. Phone (219) 234-8405.

CHASSIS ONLY FOR PHILCO cathedral, model 37-61, Charles A. D'Alessio, 136 Changebridge Road, K4, Montville, NJ 07045. ((201) 263-4747.

WANTED — ZENITH

ZENITH TRANSISTOR Trans-Oceanic 11 or 12 band radio- parts or complete. Have Rider TV manuals 2 thru 23 for offer. Wade, 657 14th Ave., Prospect Park, PA 19076.

INDIANA HISTORICAL RADIO SOCIETY and ANTIQUE WIRELESS ASSOCIATION

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FOR INFORMATION, WRITE TO:

JOHN D. FOELL, CO-CHAIRMAN

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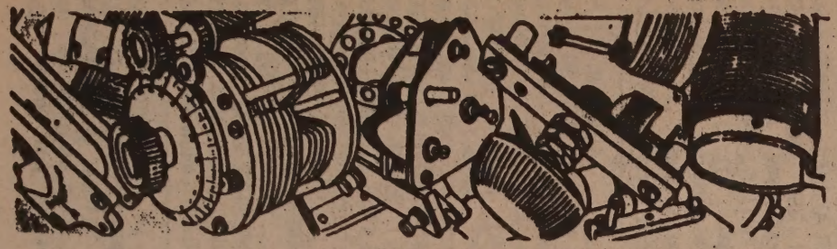

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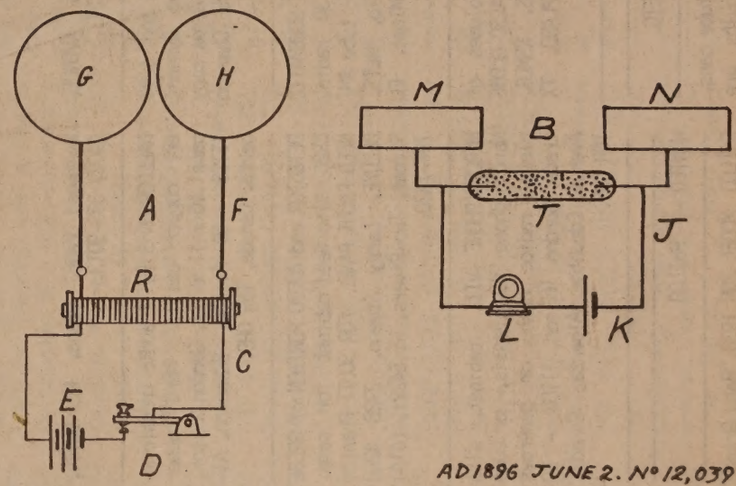
April

THE HORN SPEAKER

1988

Taken from the first diagram in Marconi's patent No.12039 — the world's first radio patent.



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